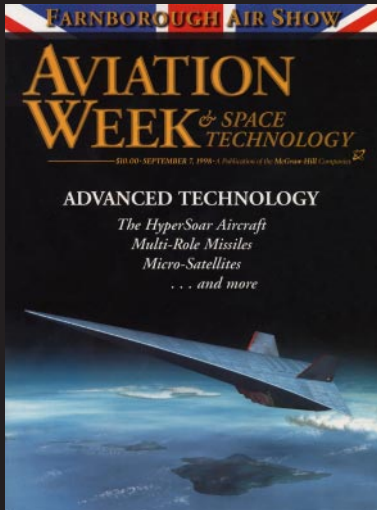


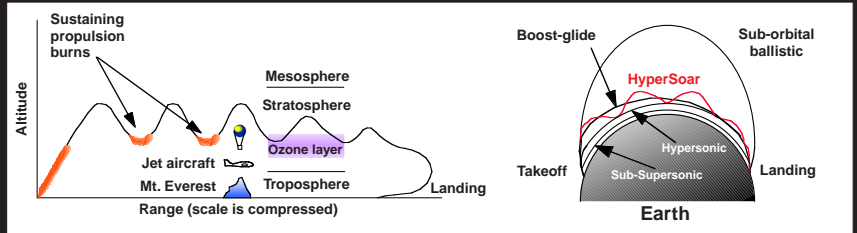
HyperSoar

Global Reach and Global Power

HyperSoar is a superior airplane concept for global missions. Its characteristics include speeds of Mach 10 and a glide range of 2000 km. LLNL technologies and concepts are contributing to hypervelocity technologies.



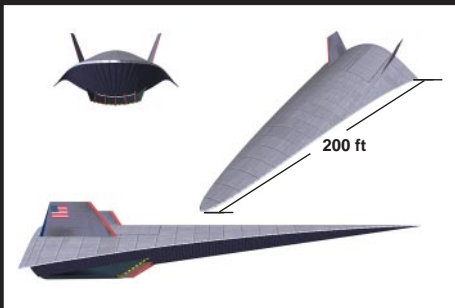
HyperSoar Trajectory



Typical Characteristics

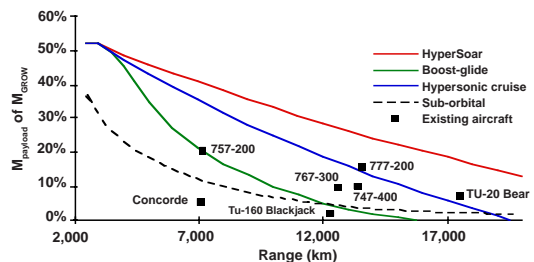
Mach number:	10
G's during skip:	1.5
Duration of zero gravity:	1.7 min.
Number of skips:	2.5 per 1000 km
Glide range:	2000 km

HyperSoar Vehicle Concept



HyperSoar is a superior airplane for global missions

Comparison of the payload to gross takeoff weight ratio vs range



- Global reach from CONUS
- Carry twice the payload
- < 2-hr flight time to target

HyperSoar can provide unique mission capability

- Projection of power
 - You're always in range
 - You can't run
 - You can't hide
 - We can hit with the intensity required
- Presence
 - Always ready to act
 - Always able to act
 - Can't be prevented from watching
 - Can't be prevented from acting
- Mobility
 - Move more
 - Move it faster
 - Put it where it's needed
- Cost effectiveness
 - Address multiple mission areas simultaneously
 - Limit requirement for global infrastructure
 - High weapon effectiveness

